

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21602 - L2 Version 1
Chandra X-Ray Center

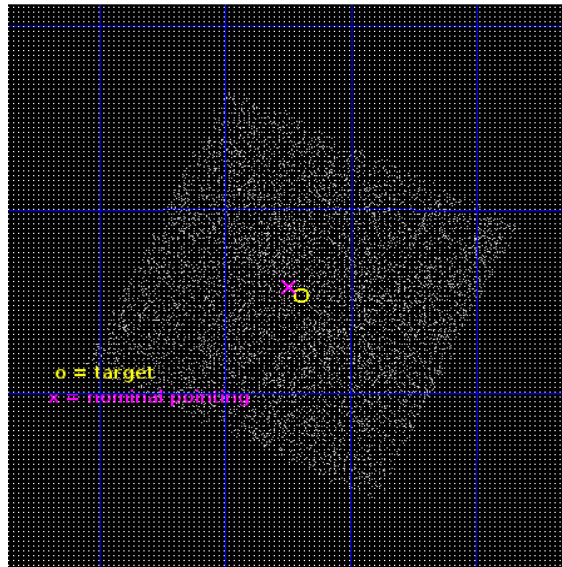
L2 Processing Date : Jul 3 2019

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1 Front

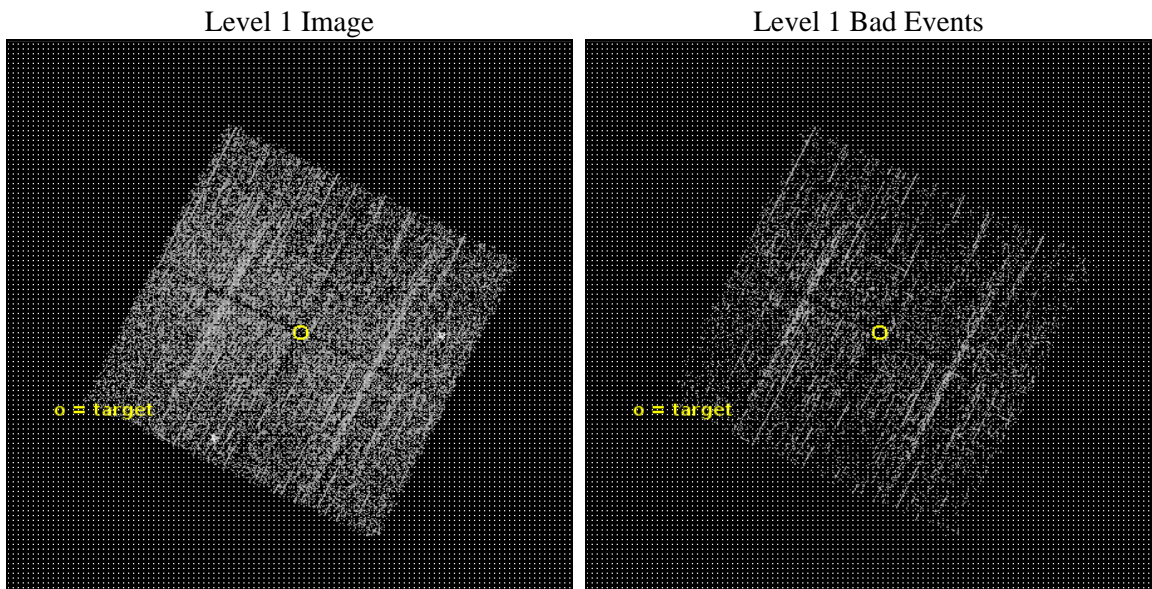
seq_num	300434	Sequence number
obs_id	21602	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.29869	Observer's specified target RA [deg]
dec_targ	-28.745402	Observer's specified target Dec [deg]
ra_nom	267.3110799317	Nominal RA [deg]
dec_nom	-28.736731773439	Nominal Dec [deg]
roll_nom	296.21462394745	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1906.500014782	Sum of GTIs [s]
livetime	1881.5901885439	Livetime [s]
ontime0	1906.500014782	Sum of GTIs [s]
ontime1	1906.500014782	Sum of GTIs [s]
ontime2	1906.500014782	Sum of GTIs [s]
ontime3	1906.500014782	Sum of GTIs [s]
l2events	6128	Number of level 2 events



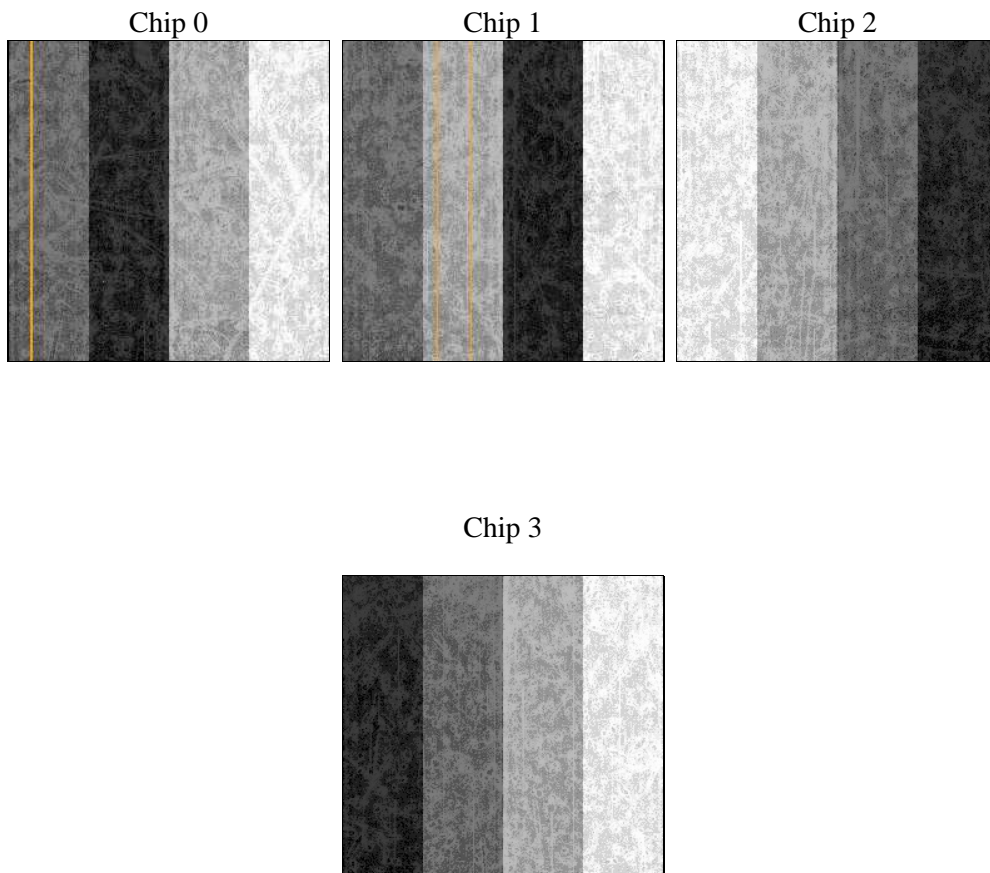
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1906.500014782	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1906.500014782	Sum of GTIs [s]
date	2019-07-03T21:53:21	Date and time of file creation	ontime1	1906.500014782	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1906.500014782	Sum of GTIs [s]
			ontime3	1906.500014782	Sum of GTIs [s]
			l1events	56927	Number of level 1 events

2.1.4 Events

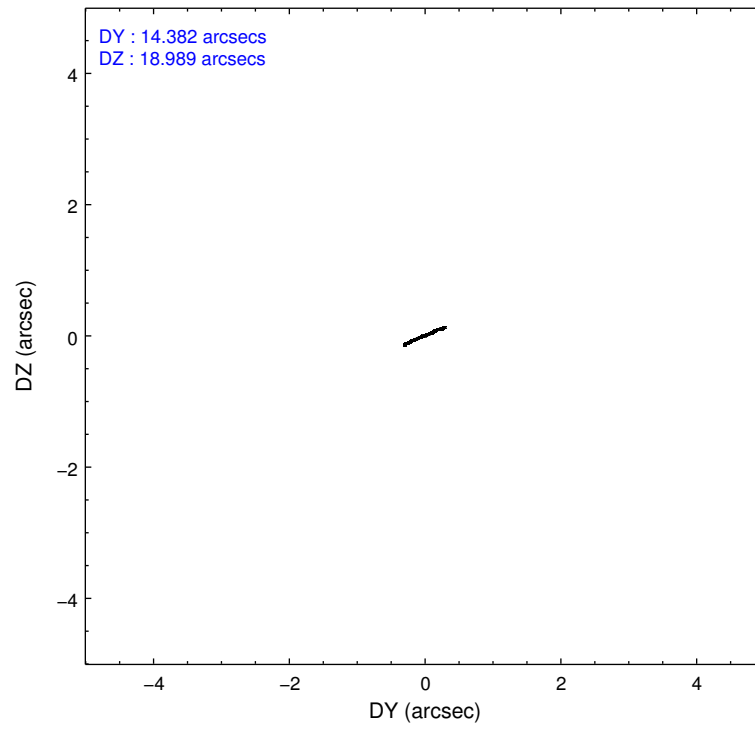
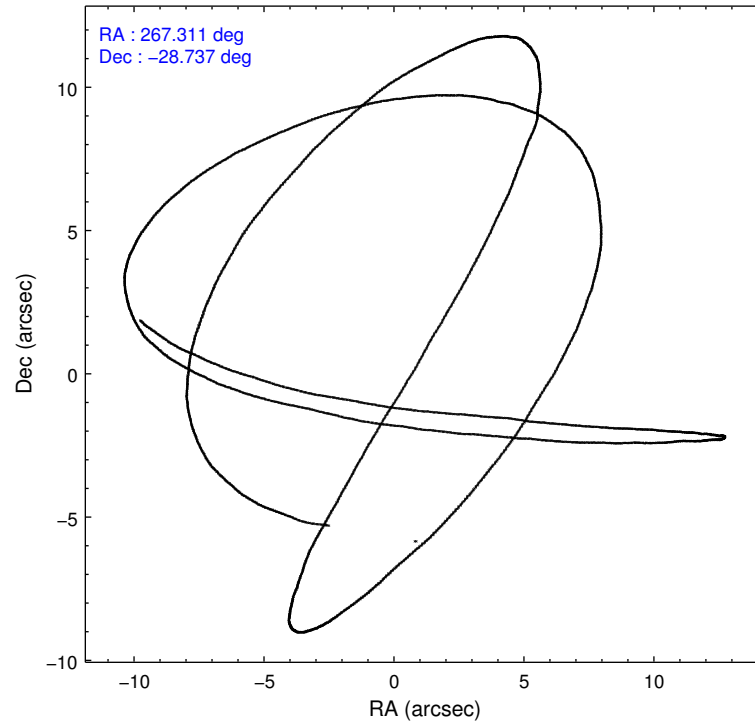
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13558	13107	15283	14979
rejected events	11688	10541	13021	13257
rejected %	86%	80%	85%	88%

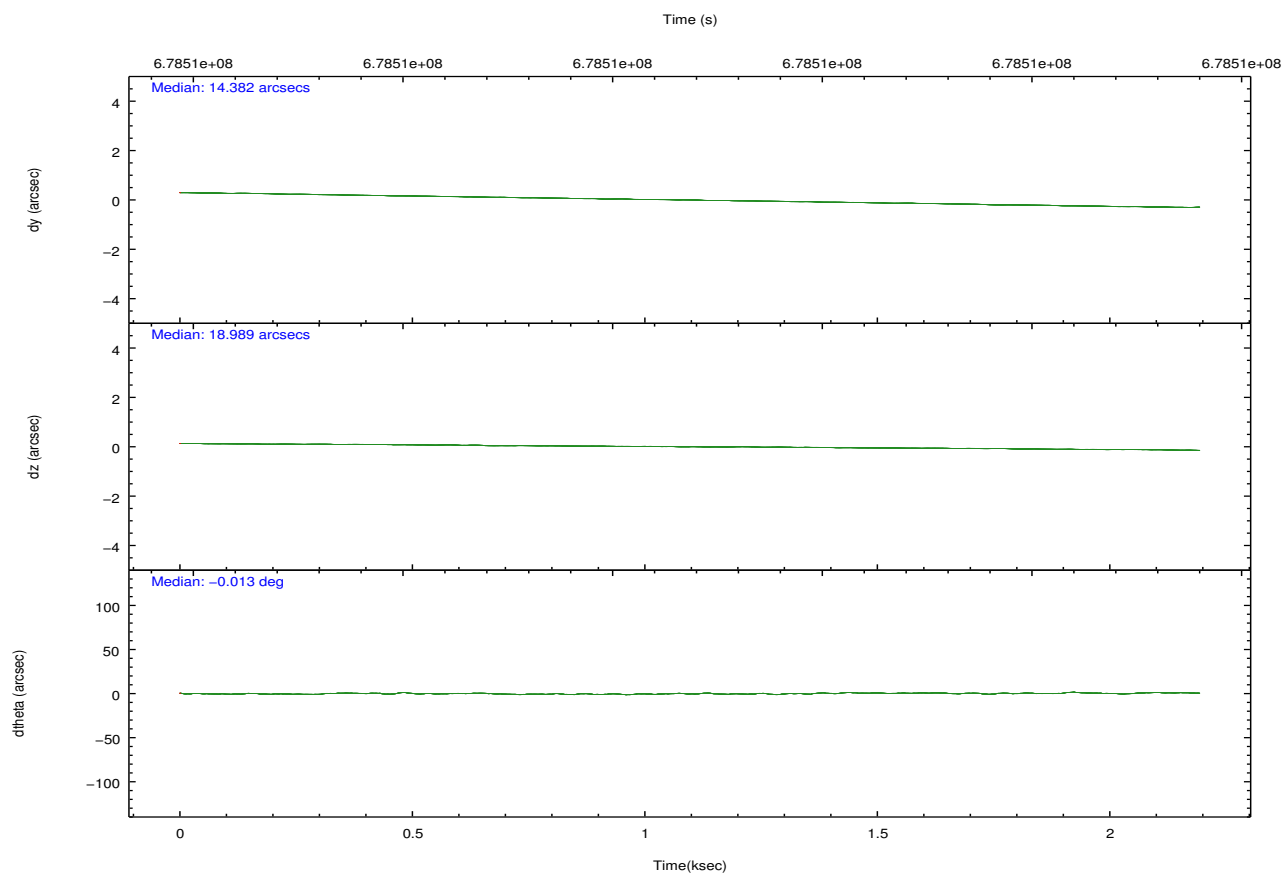
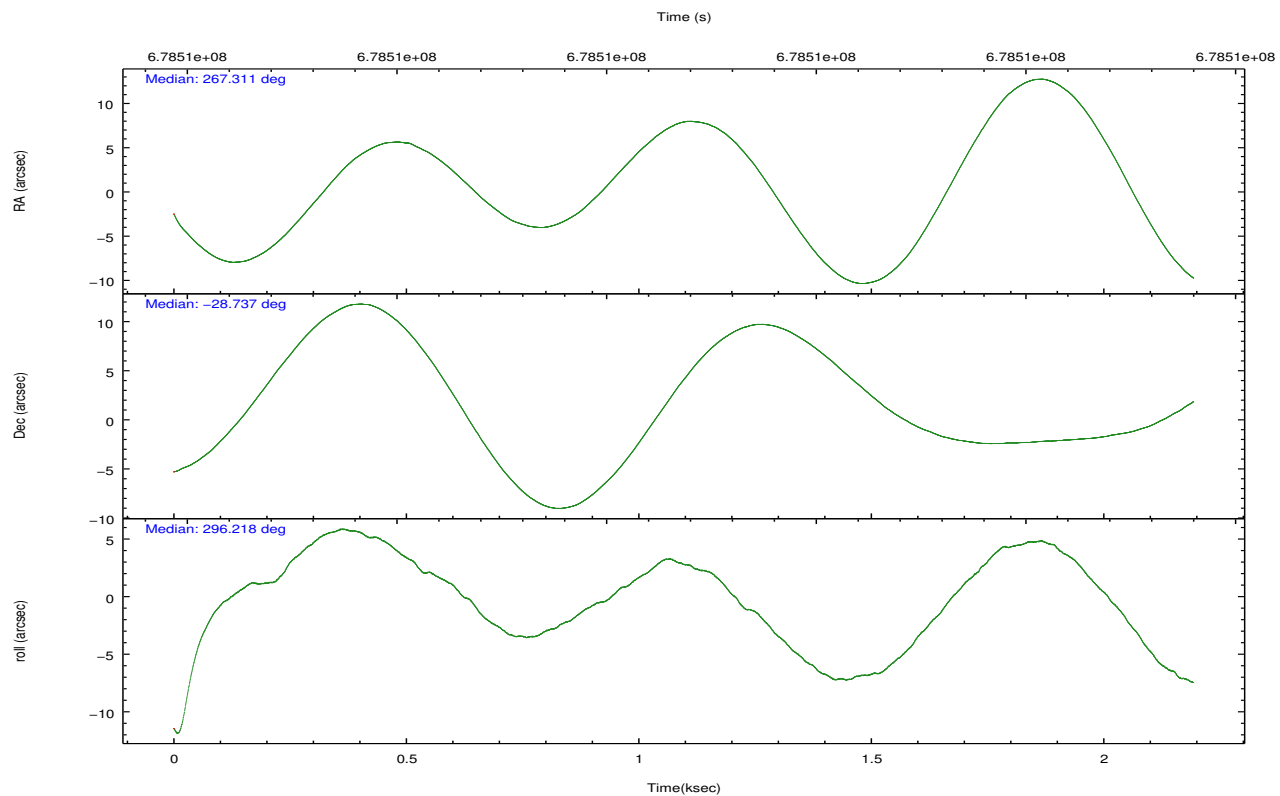
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	684	1305	1303	703
	5%	9%	8%	4%
grade 1 events	6	8	11	10
	0%	0%	0%	0%
grade 2 events	466	474	330	333
	3%	3%	2%	2%
grade 3 events	187	159	144	163
	1%	1%	0%	1%
grade 4 events	153	165	168	148
	1%	1%	1%	0%
grade 5 events	554	568	585	681
	4%	4%	3%	4%
grade 6 events	386	475	332	381
	2%	3%	2%	2%
grade 7 events	11122	9953	12410	12560
	82%	75%	81%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.284876	267.3110799317009	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.721445	-28.73673177343939	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993362	296.2146239474511	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	678508300.184000	678507924.19643			
Observation start date	2019-07-03T02:30:31	2019-07-03T02:25:24			
[s] Observation end time (MET)	678510300.184000	678510434.42158			
Observation end date	2019-07-03T03:03:51	2019-07-03T03:07:14			
Read mode	TIMED	TIMED			

2.3 Aspect



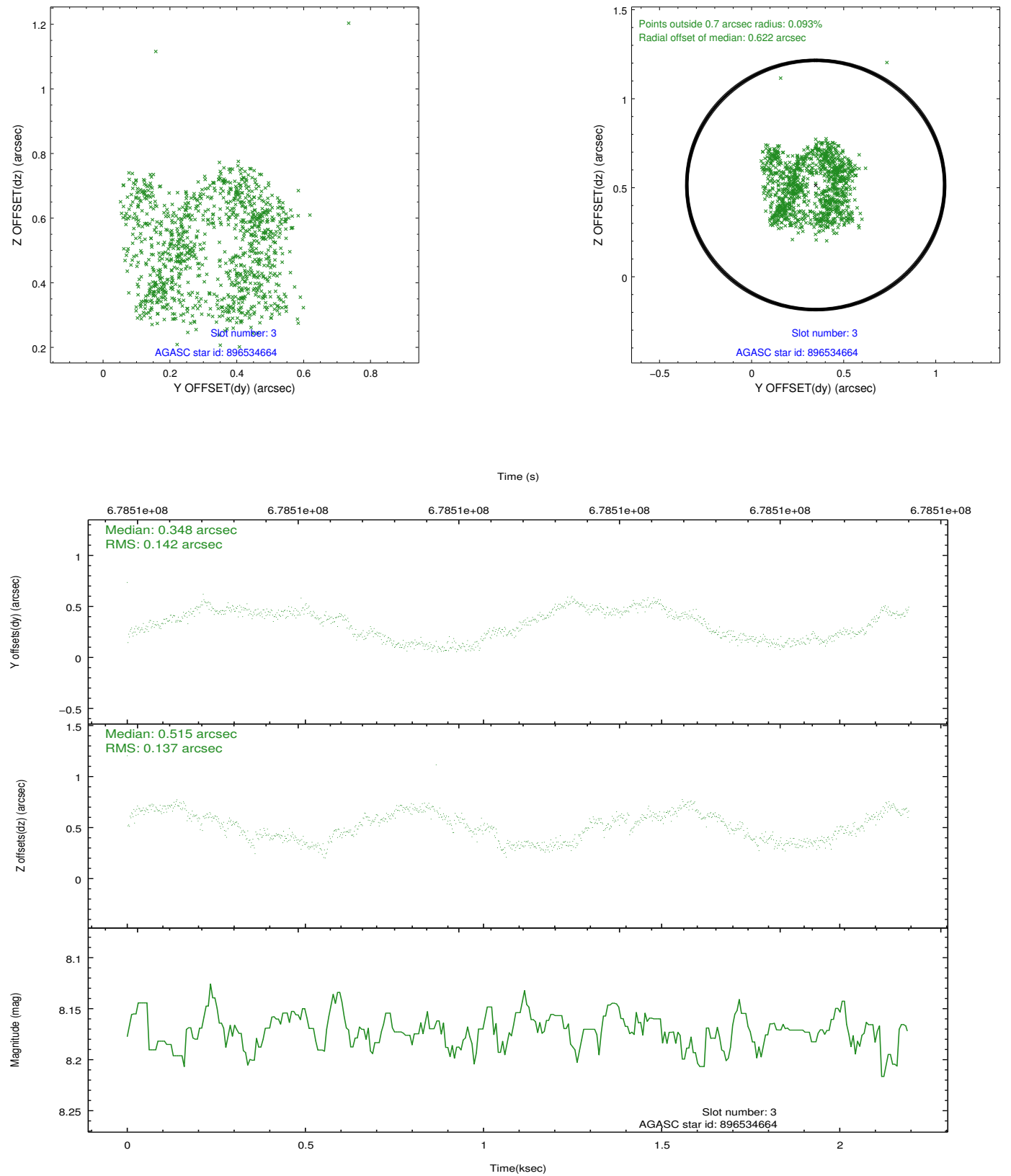


Slot Statistics

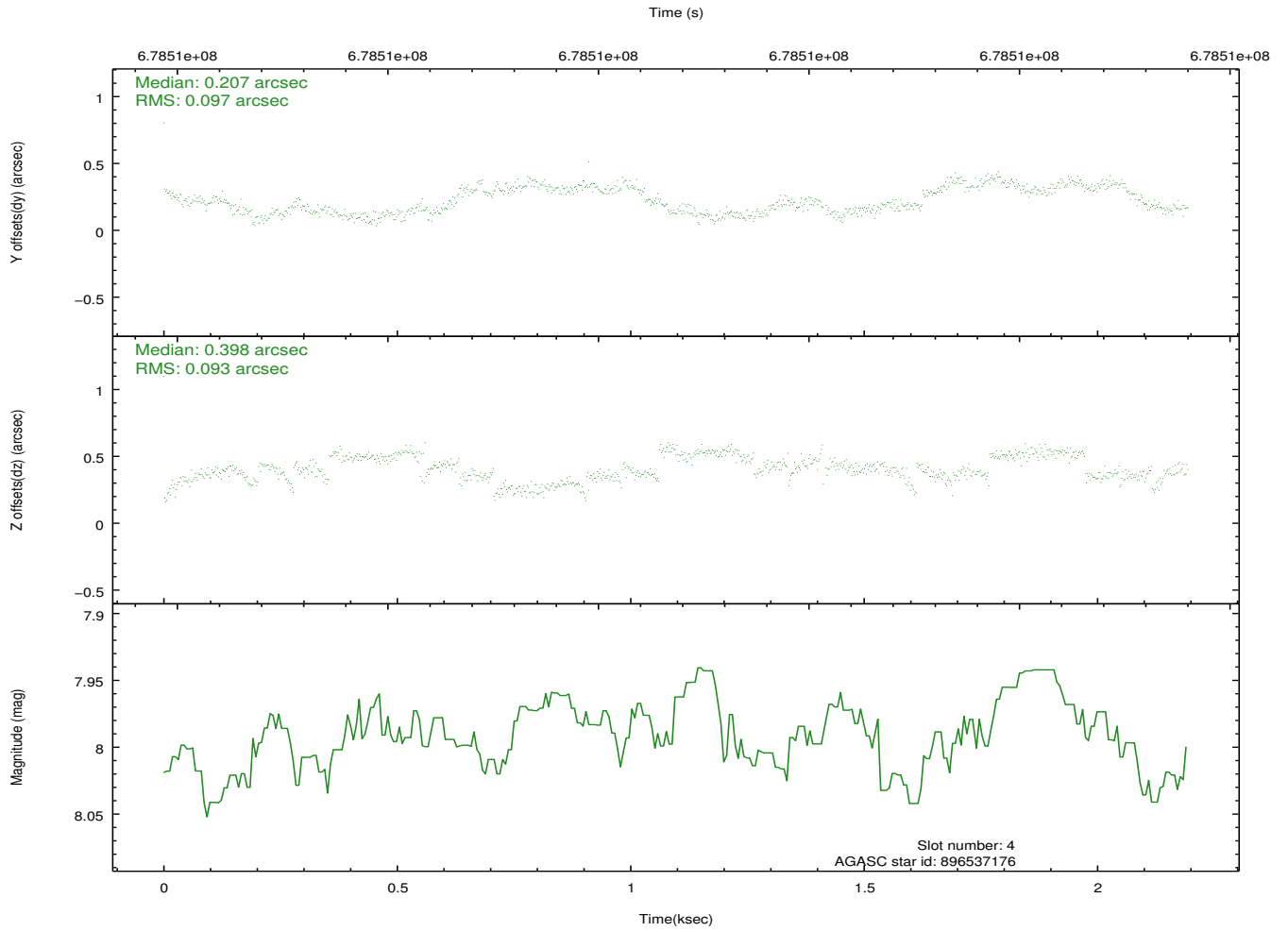
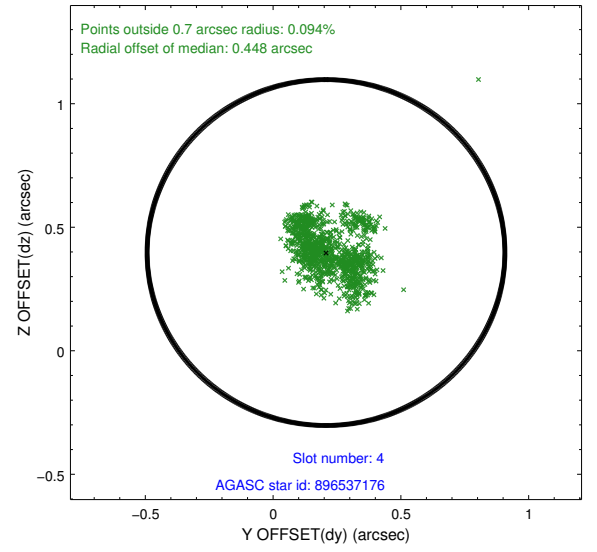
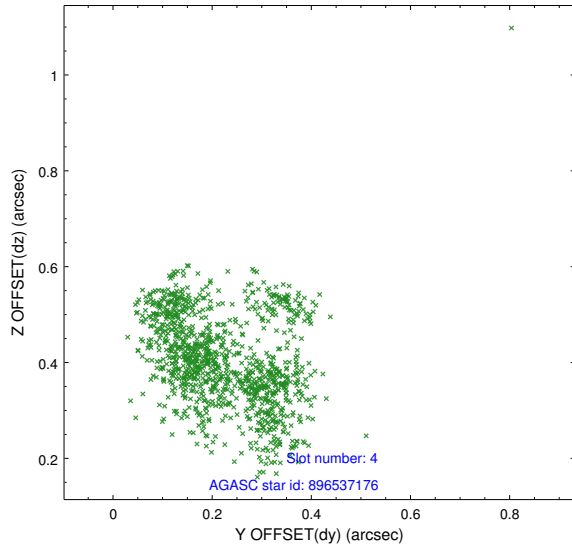
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.21	536	1.000	0.205	-0.214	0.010	0.016	0.000000	0.000000	925.47	-842
1	FID		ACIS-I-3	7.45	536	1.000	-0.099	0.209	0.010	0.016	0.000000	0.000000	44.33	-977
2	FID		ACIS-I-5	7.21	536	1.000	-0.197	0.077	0.006	0.012	0.000000	0.000000	-1823.40	1052
3	GUIDE	used	896534664	8.17	1070	1.000	0.348	0.515	0.216	0.293	266.405570	-28.407461	-2225.25	-2010
4	GUIDE	used	896537176	7.99	1068	1.000	0.207	0.398	0.150	0.211	266.498272	-28.678259	-1222.18	-2169
5	GUIDE	used	896540528	8.25	1070	1.000	0.160	-0.272	0.107	0.176	267.368305	-29.314773	2035.21	-701
6	GUIDE	used	896540888	7.88	1071	1.000	-0.071	-0.130	0.085	0.145	267.212234	-28.246138	-1636.25	543
7	GUIDE	used	896543712	8.21	1070	1.000	-0.631	-0.512	0.102	0.155	267.764551	-28.659720	466.81	1458

2.4 Star Slots

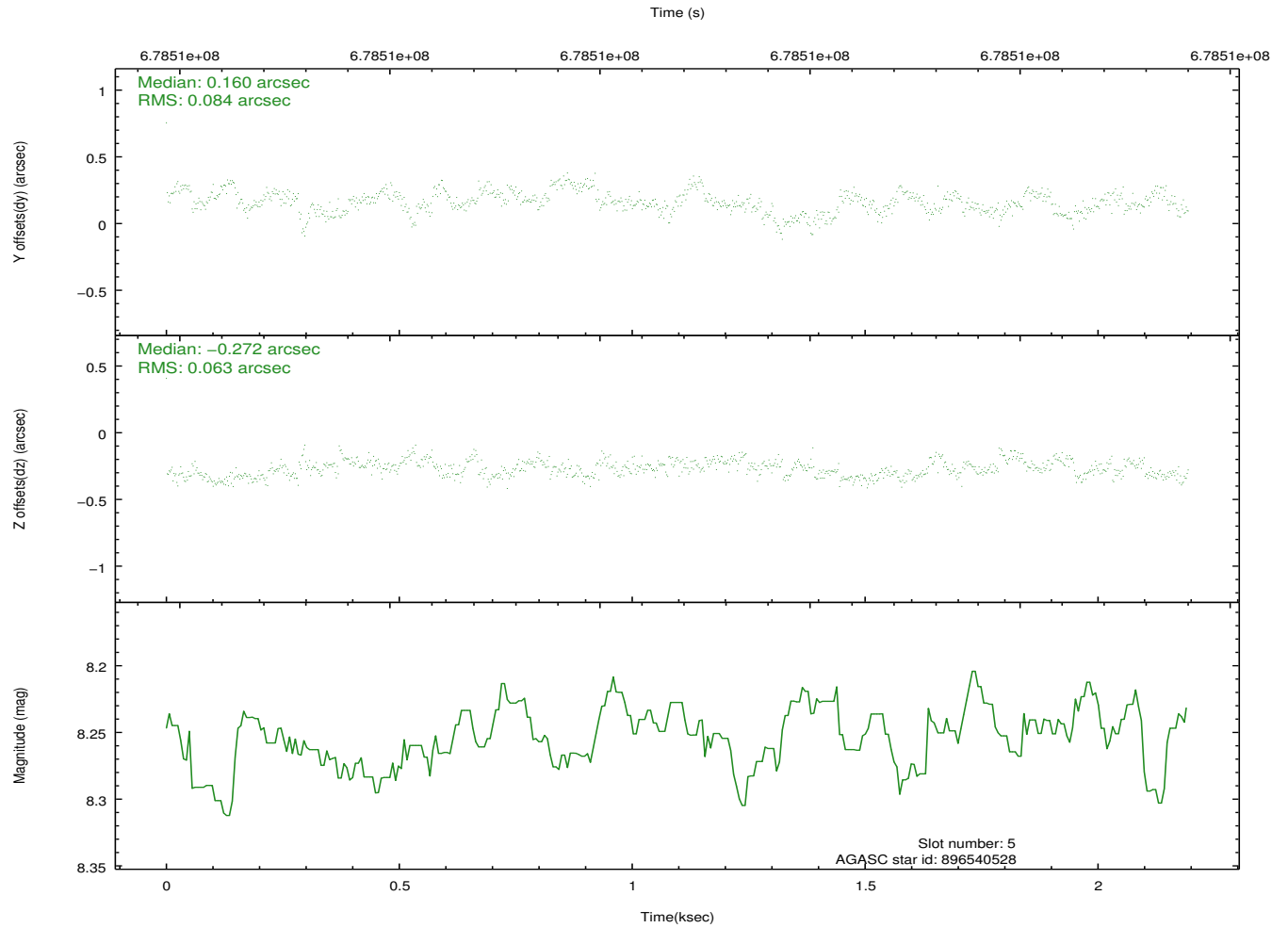
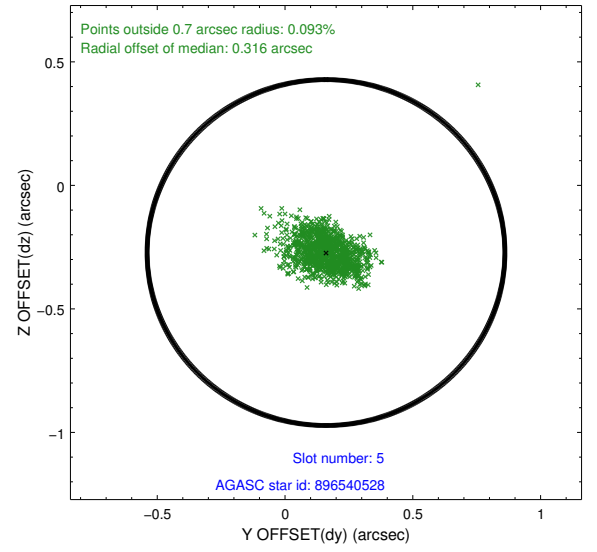
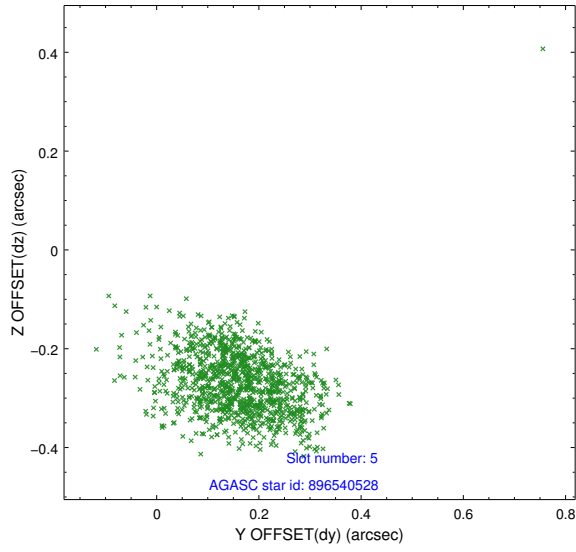
2.4.1 Slot 3



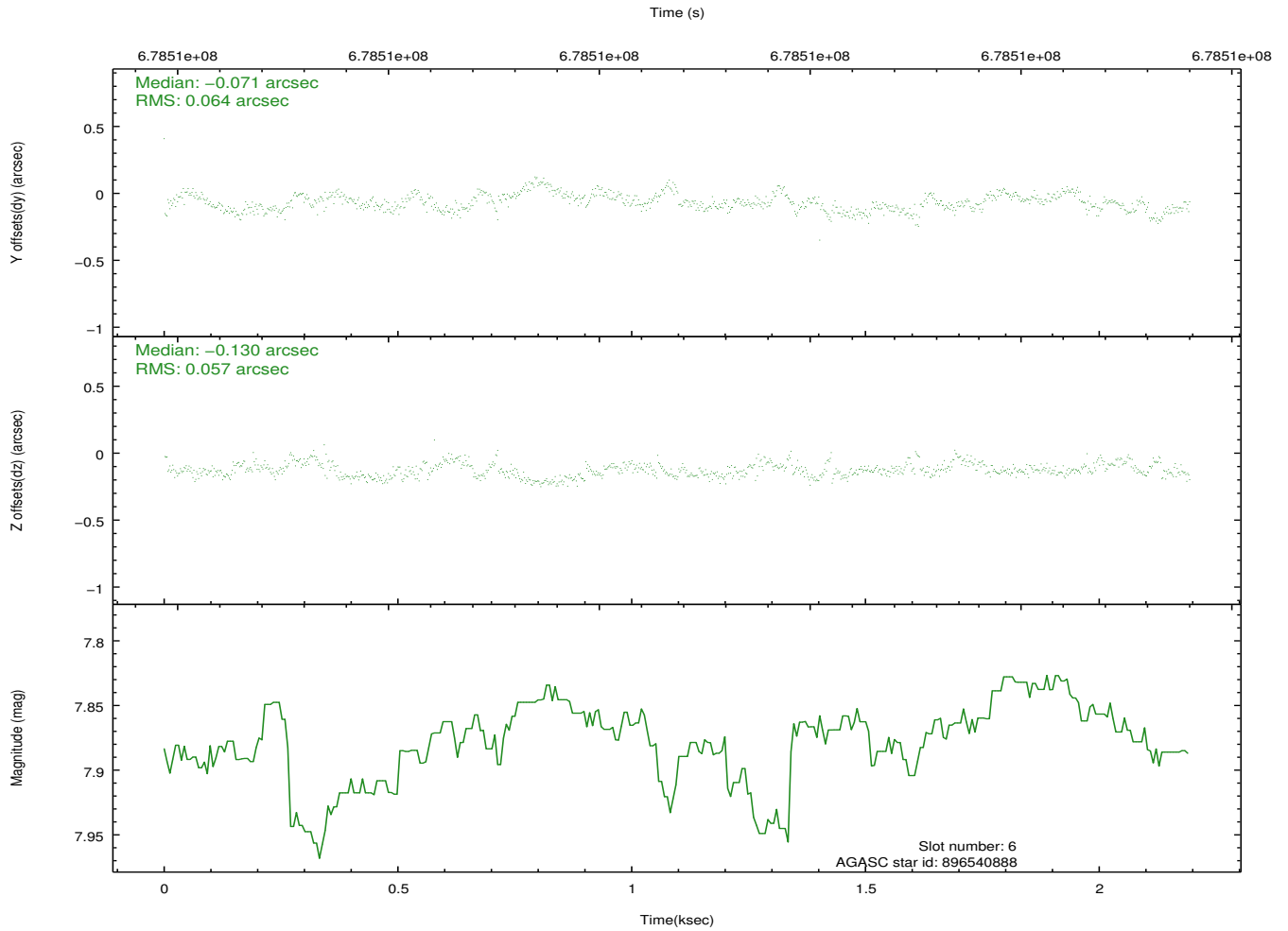
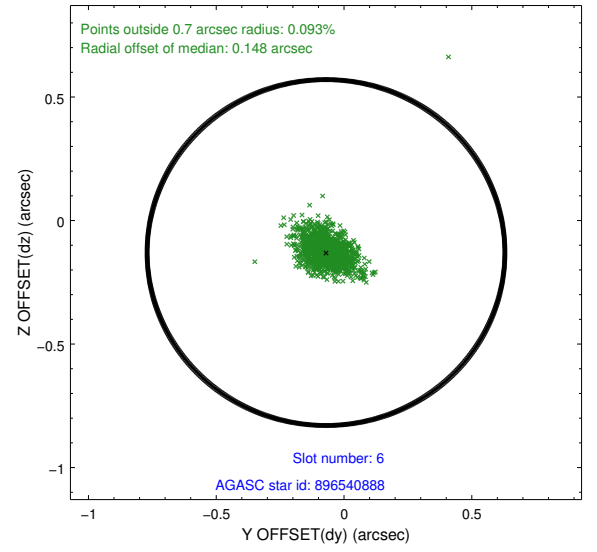
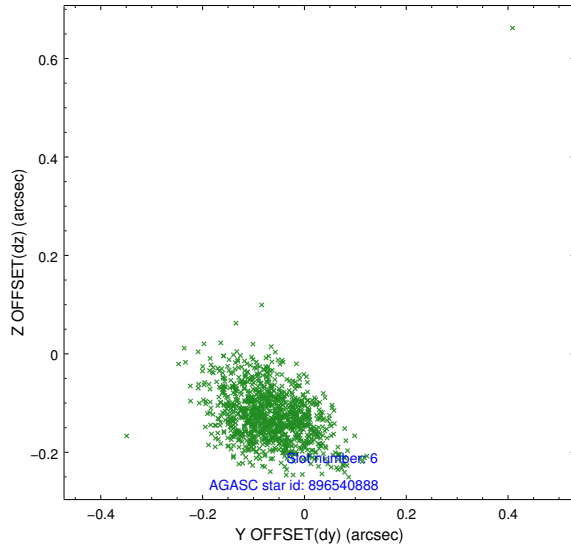
2.4.2 Slot 4



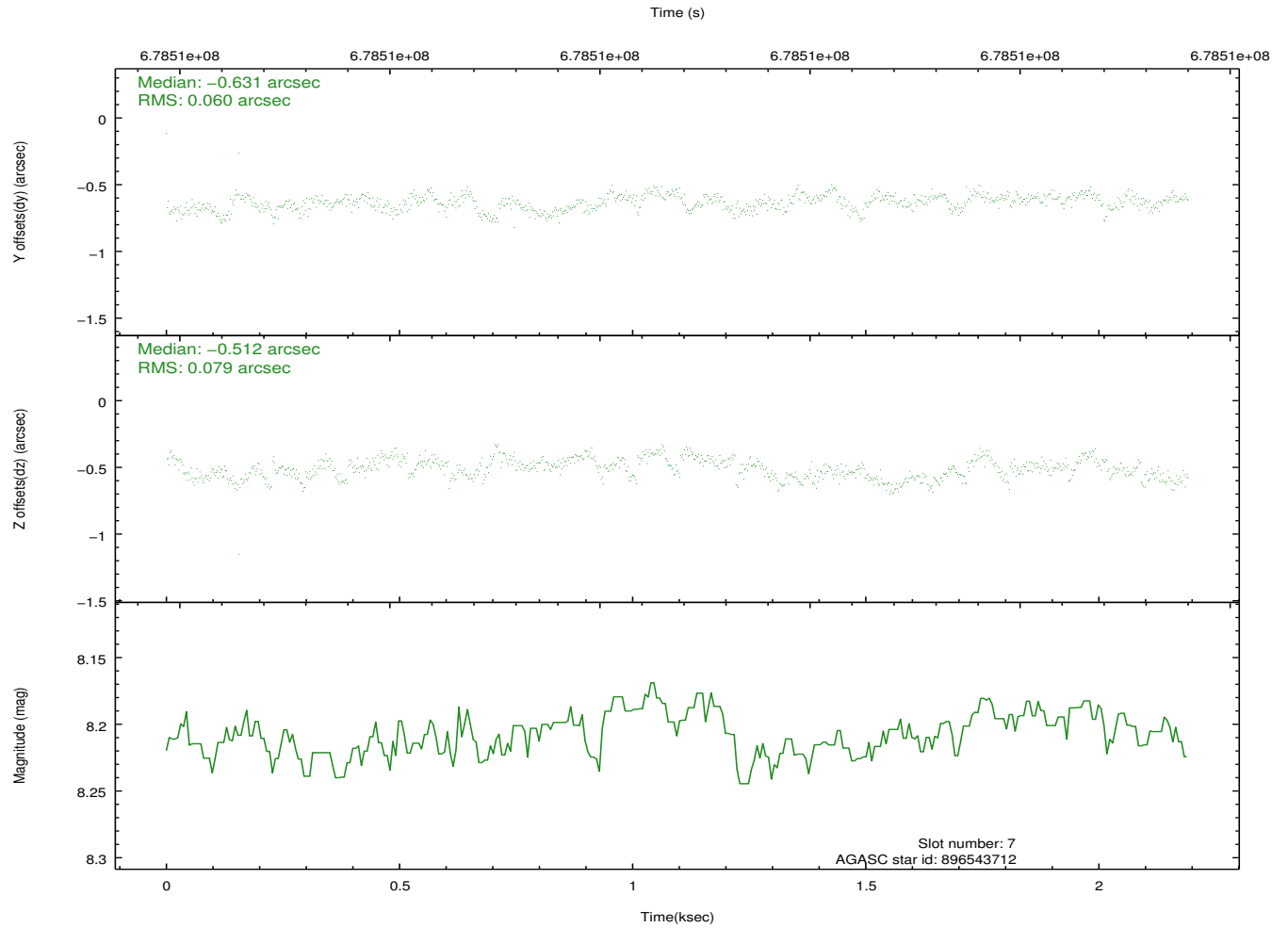
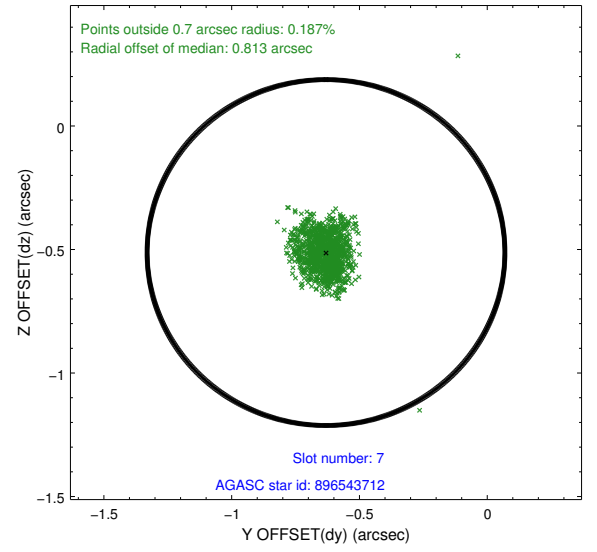
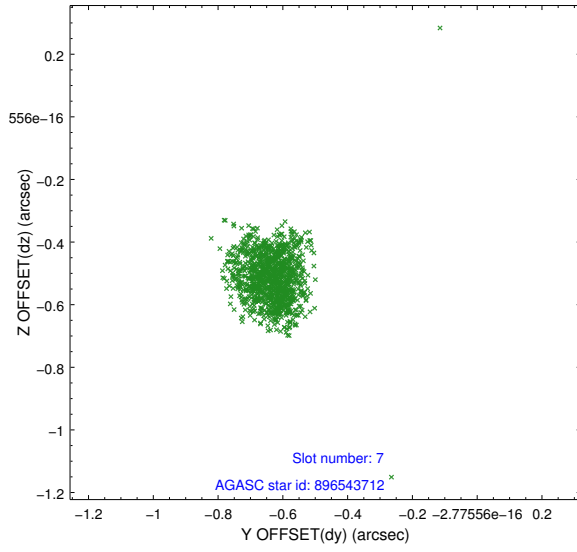
2.4.3 Slot 5



2.4.4 Slot 6

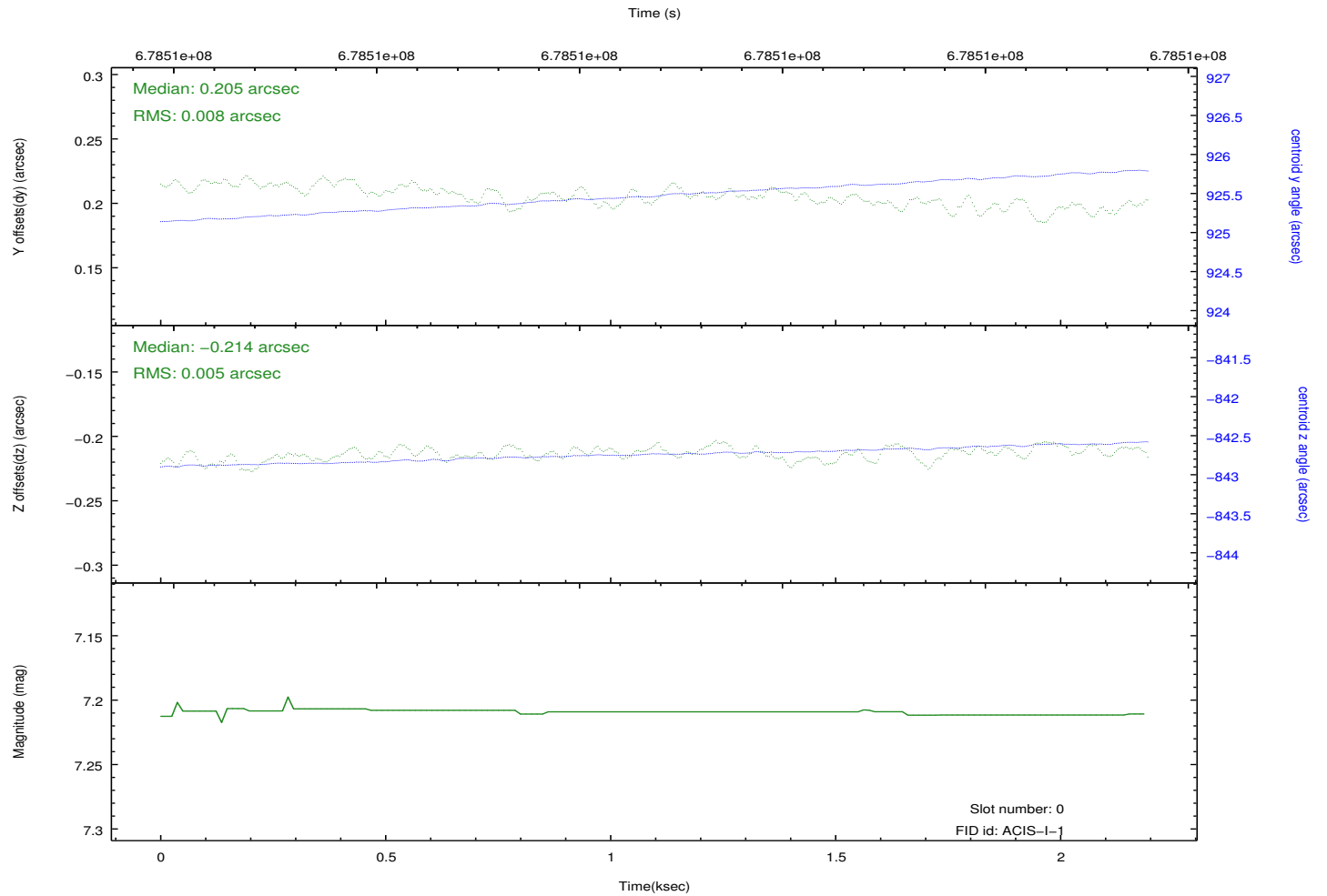
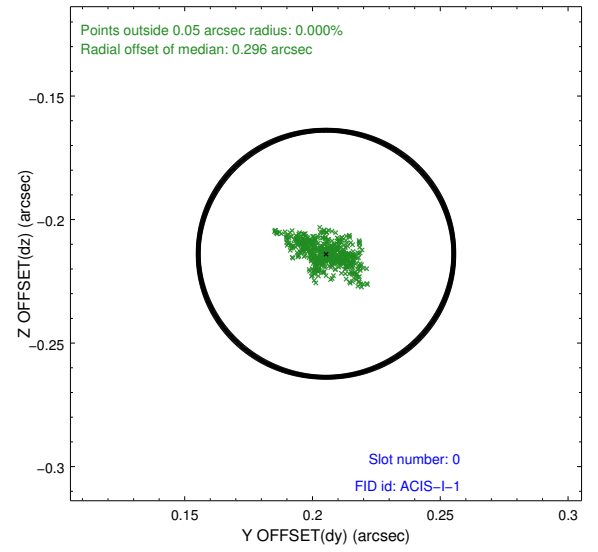
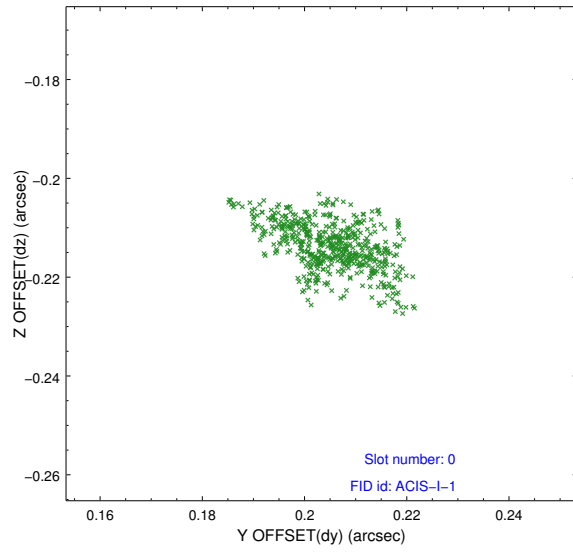


2.4.5 Slot 7

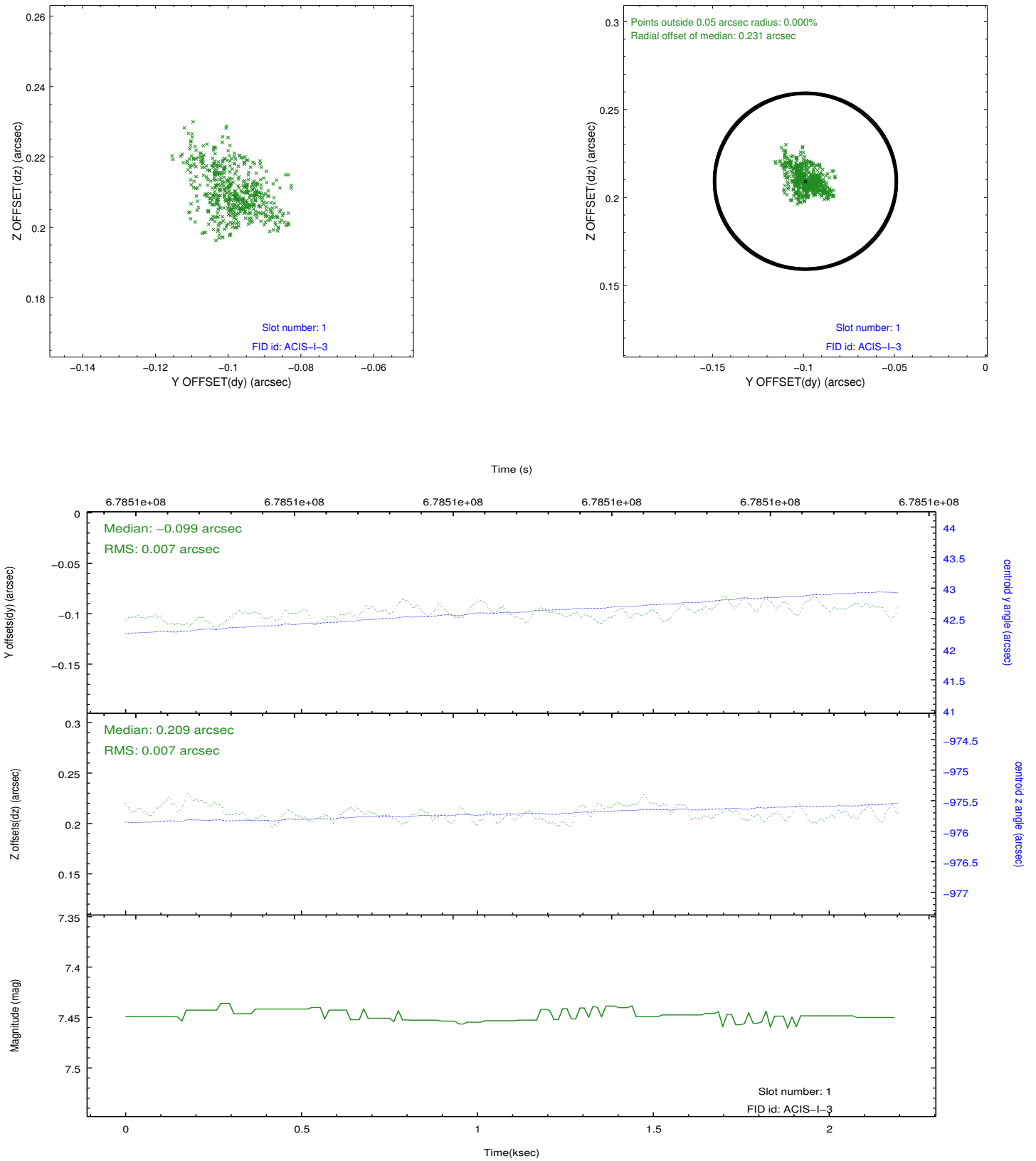


2.5 FID Slots

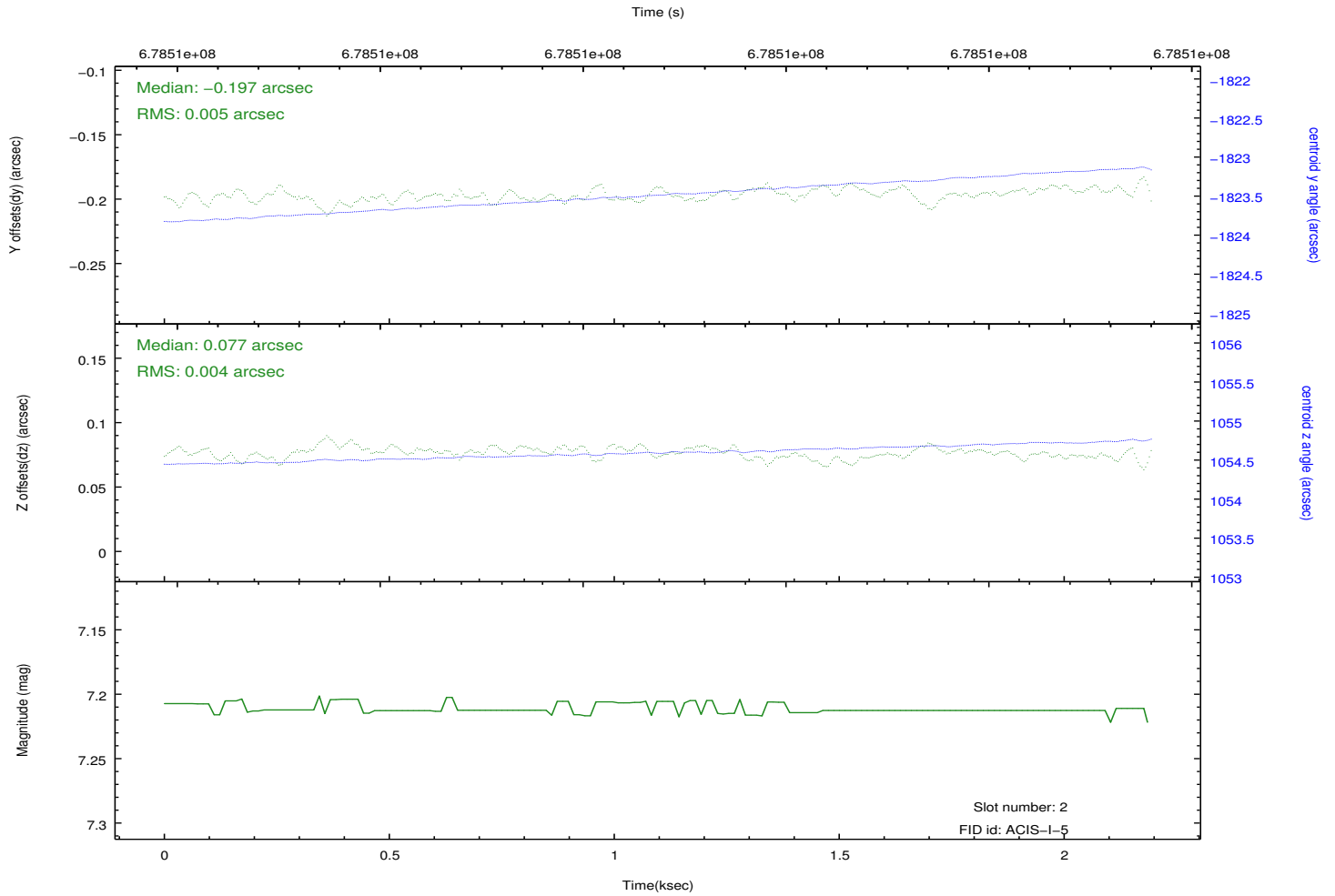
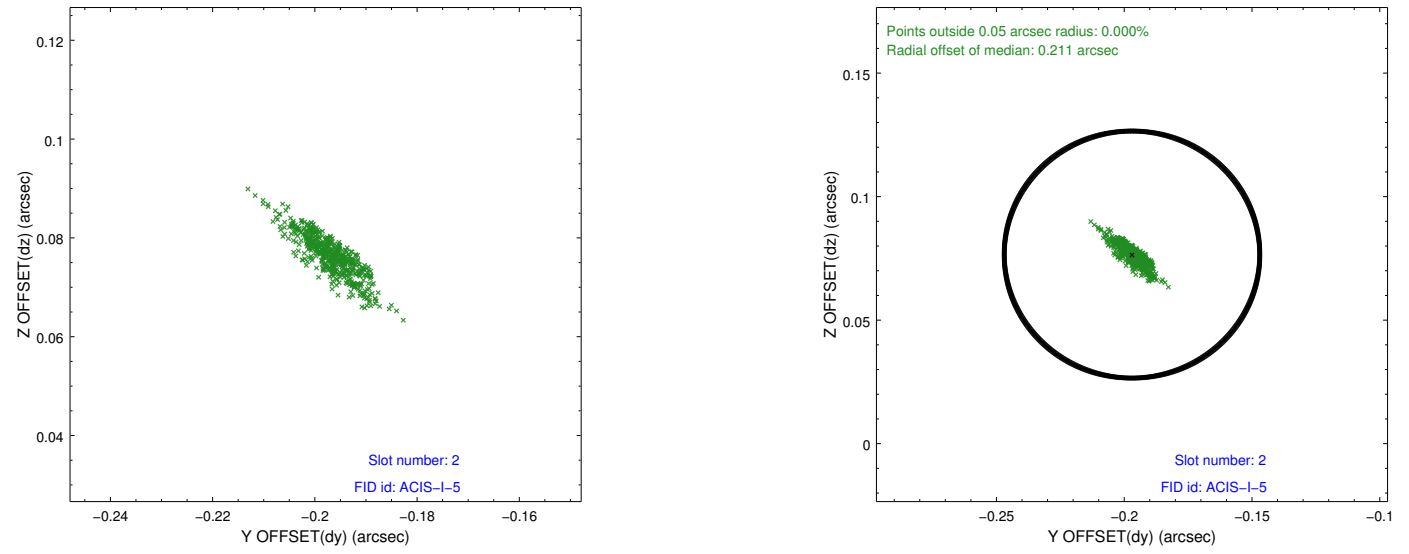
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.906500014782

A.2 Comments